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GIST

VEREIN

GIST

SARKOME

NIERENKREBS

LEBEN

Suche ...

GIST

IM FOKUS

GIST: Progressive Disease

New Horizons GIST - Vienna/Austria

Sept. 5 -7, 2018

Markus Wartenberg



GISTs are different...

- Age & co-morbidities
 - Stage of diagnosis...
 - Tumour burden (tumour mass)
 - Location
 - Tumour size
 - Mitotic Count
 - Primary Mutation (KIT, PDGFRA, Wild Type...)
 - Metastasis (number, location...)
 - Secondary Mutations
 - Type of resistance?
 - Role of the immune-system?
-
- Availability & quality of treatment! (e.g. tumour rupture)
 - Therapy & side effect mgmt.

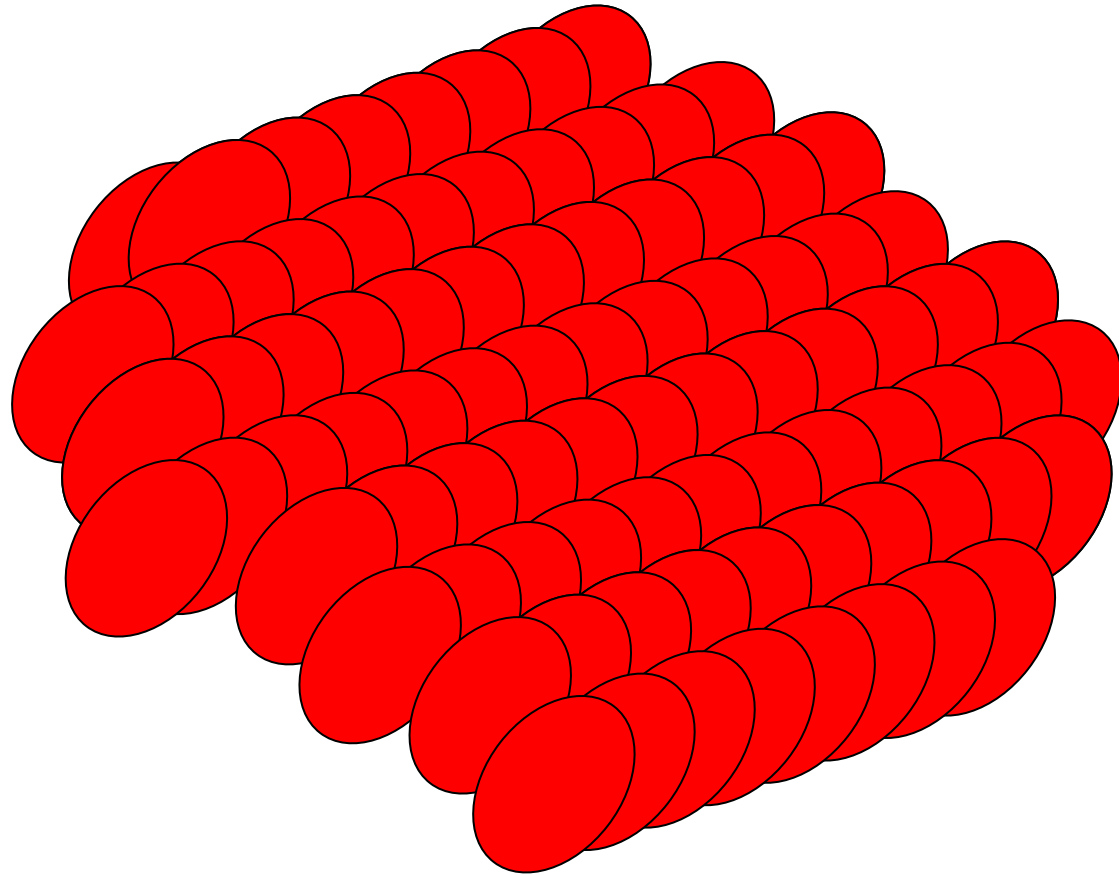


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WHAT DOES PROGRESSION MEAN?

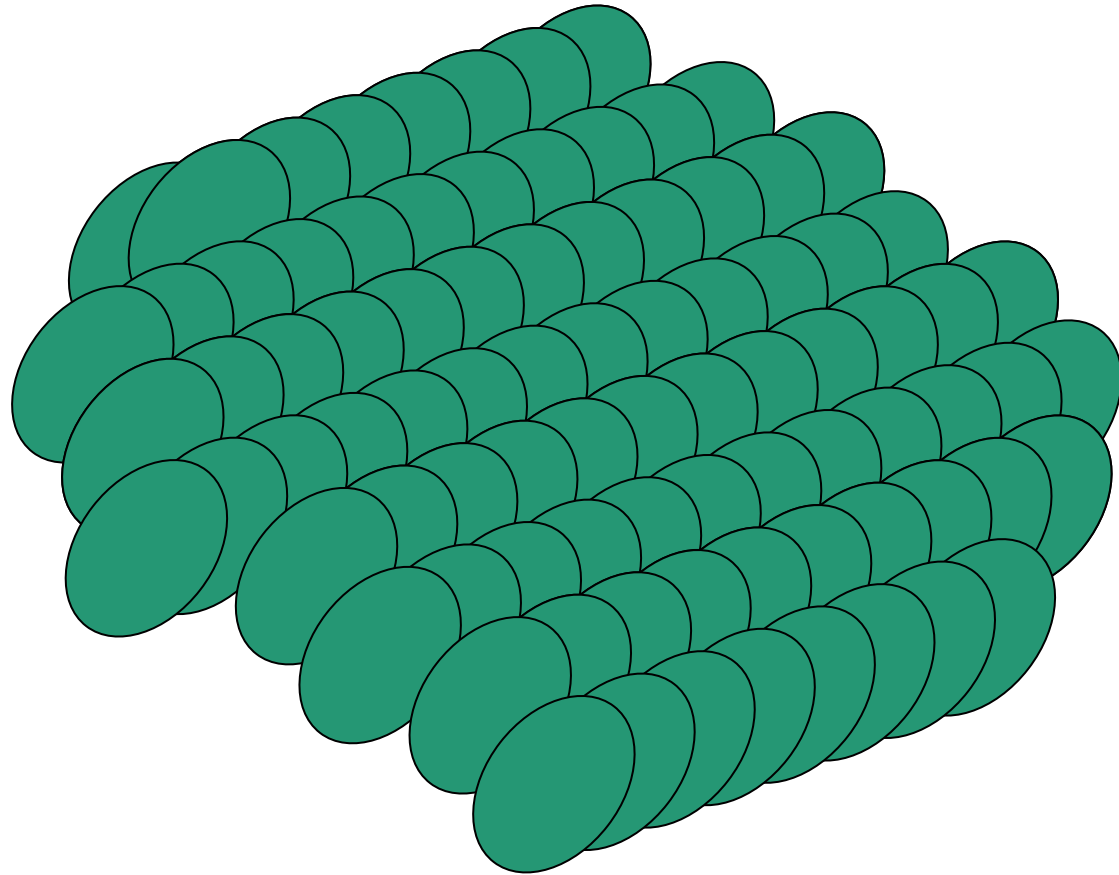


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Approved targeted therapies for the treatment of GIST

- Research code:

STI-571



SU 11248



BAY 73-4506



- Active agent:

imatinib (mesylate)

sunitinib (Malate)

regorafenib

- Product name:

Gleevec® / Gleevec™

Sutent®

Stivarga®

- Manufacturer:

Novartis

Pfizer

Bayer

- Approvals:

CML + rare cancers
adjuvant GIST therapy
1st-line mets. GIST

Met. kidney cancer (mRCC)
Prog. NET of the pancreas
2nd-line mets. GIST

Met., colon cancer (mCRC)
3rd-line mets. GIST

- Tyrosine kinase-inhibitor - targets:

KIT, PDGFR, Bcr-Abl

KIT, PDGFR, VEGF, FLT, RET, CSF

RET, VEGFR1-3, KIT, PDGFRA+B, FGFR1-3, TIE2, DDR2, TrkA, Eph2A, RAF-1, BRAF, SAPK2, PTK5, abl

- Dosage form:

Oral
100mg, 400mg

Oral
12.5mg, 25mg, 50mg

Oral
40mg

Tablets

Capsules

Tablets

- Therapy:

Contin., daily

Cycle – 6 weeks
4 wk. ther. - 2 wk. break

Cycle - 28 days - 4 weeks
21 days ther. - 7 days break

- Standard dosage:

400mg or 800 mg/day

50mg/day for 4 weeks.

160mg/day for 21 days

- Dosage in clinical practice:

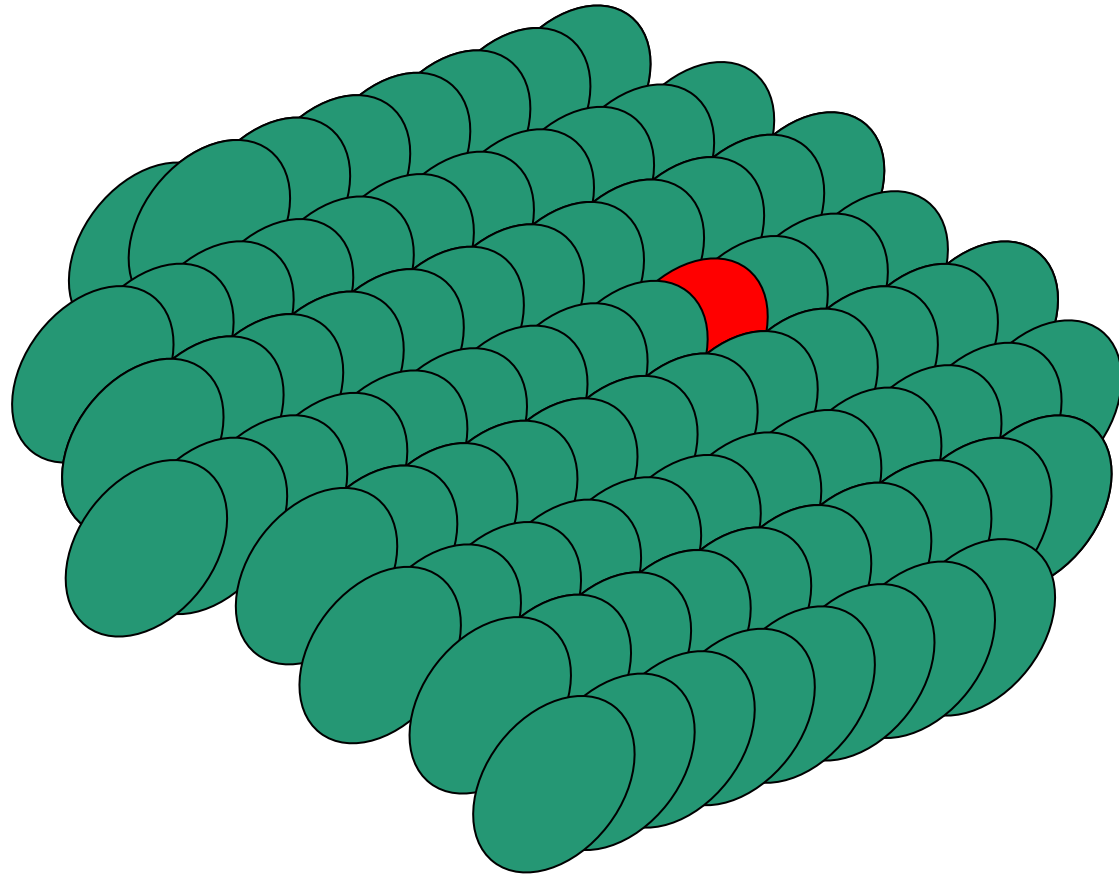
400mg minimum dose
800mg exon 9

37.5mg/day contin.
Individual dosing

dose reductions (120/80)
Individual dosing

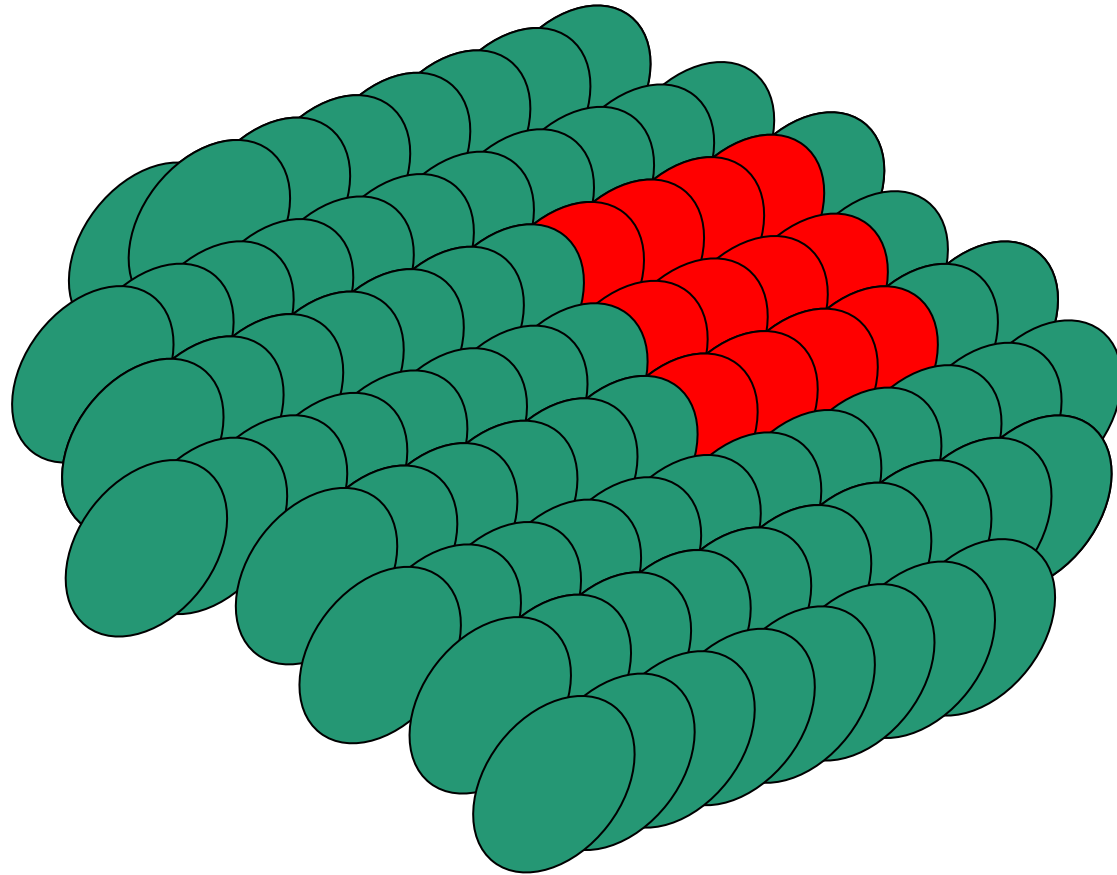


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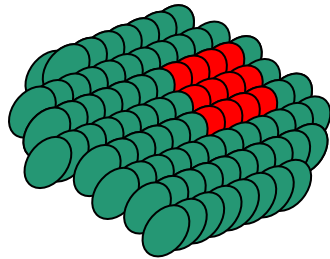
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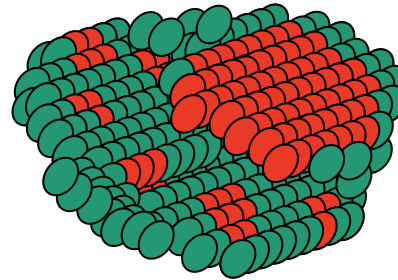


Types of Progression

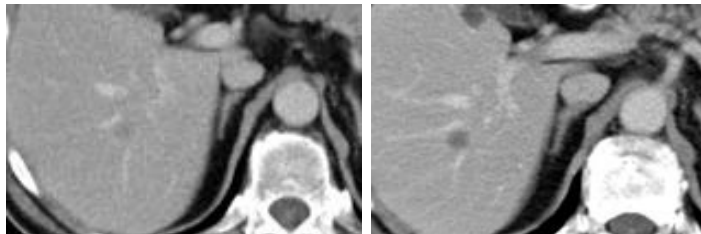
- **Local (focal) progression:**
Progressive disease –
in one location



- **Systemic progression**
Progressive disease (at the same
time) in several places



- **False or pseudo-progression**





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Types of Progression

- **New lesions / metastases**
- **Intratumoral "nodes" (lesion in a lesion)**
- **Increase in tumor size
(Not due to fluid increase!)**
- **Increase in tumor density**



Imatinib Resistance & Secondary Mutations

- **Initial:**
Few patients do not tolerate imatinib at the beginning
- **After 2- 3 years,**
successfully treated tumours are becoming resistant
- **But also:**
10% of all GIST-patients with metast. disease are
longterm responder (> 15 years)
Unfortunately, we do not know (...in advance...)
who these patients are and why they are stable for so long!?



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PROGRESSIVE DISEASE:

WHAT TO DO?



Testing / verification of progression

Is it really a progressive disease?

- Adherence (therapy loyalty)?
- Confirmed progression?
- Histology confirmed?
- Factors such as
Complementary therapies?
- Symptoms present?
- Imminent danger?



Testing / verification of progression

Progressive disease >>> **not appropriate / useful:**

- **Headless / operational action**
(not just switching the therapy)
- **Pressure by the treating physician**
- **Opportunity: Time for a second opinion ...**

Depending on individual "patients situation" may also be an option:

Treatment Beyond Progression! >>> Reichardt data

"Watch closely and wait - before therapy change ..."



General recommendation...

Because we only have three approved treatment options:

Get the most out of every therapy –

use the therapy as long as possible!!!

Important tools:

- Treatment by an experienced GIST-physician-/team
- Individual therapy- and side effect management
(individual dosing, reduce side effects, increase compliance)
- Available systemic treatment options (incl. clinical trials)
- Local interventions



Progressive Disease

DRUG STANDARD OPTIONS?

- Increasing the imatinib-dose
- Changing systemic treatment to sunitinib (approved)
- Changing systemic treatment to regorafenib (approved)

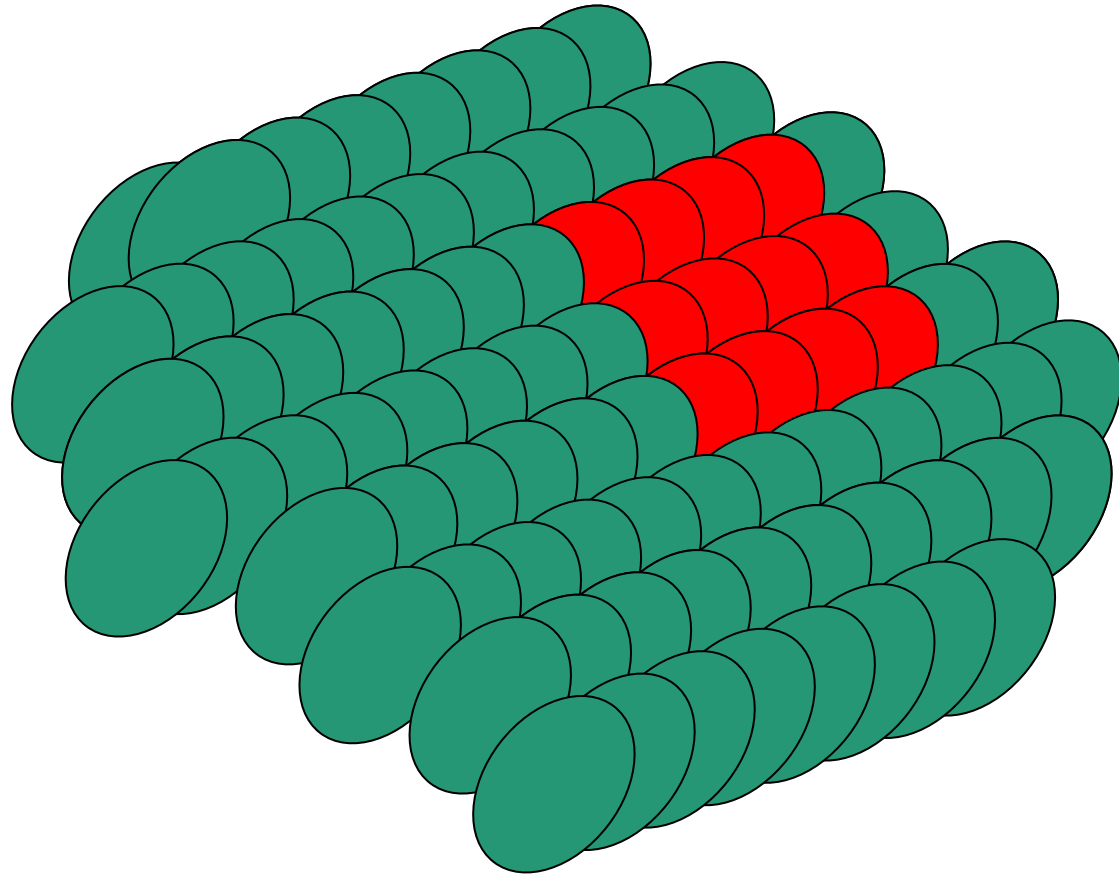
MORE DRUG OPTIONS?

- Using already tested GIST-treatments such as Afinitor, Tassigna etc. (off label)
- New options: Participating in a clinical trial – if available
- After all therapy-options: Reintroducing imatinib or other agents

LOCAL INTERVENTIONS / ACTIONS?

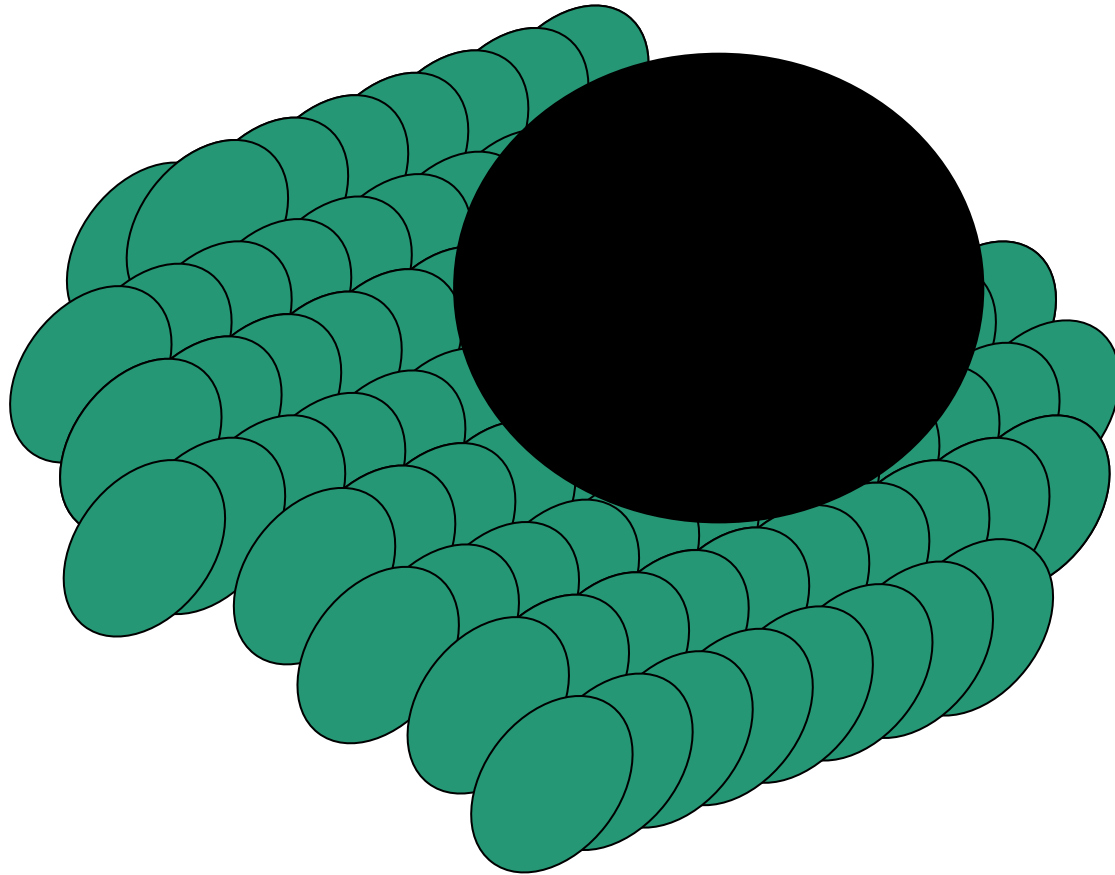


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Local options / actions

- Operation / resection Knife / Laser
- „Cooking" of single metastases in the liver
 - RFA Radio-frequency ablation heat
 - 3D-guided RFA heat
 - LITT (laser) heat
- Internal radiation by SIRT (seeds) radiation
(Selective internal radiation therapy) with SIR-Spheres microspheres
- Chemo-embolization cytostatics
- Extremely rare = bone mets. >>> radiation radiation

- **Transplant (liver) - no option**

Objective: Maintain systemic treatments as long as possible...



Progressive disease: Some open questions (1)

- Who are the patients – benefitting from an Imatinib-therapy as long-term patients? What are the main factors for long-term responses?
- When are we able to measure an upcoming progression (much earlier) by blood test as a standard procedure?
- How can we prevent resistance or delay resistance?
- Does it make sense to change a therapy before resistance comes up?
- How can we educate doctors and patients better to use the three approved therapies as effective as possible? (Therapy & Side Effect Mgmt.!)
- What is the next generation of effective GIST-therapies? Immuno-oncology? Switch Pocket Inhibitors? Others?



Progressive disease: Some open questions (2)

- What are the best „end of life“ options for GIST-patients without further options?
- What are solutions for countries where the standard therapies are not available or not affordable? What about the ethical responsibility of pharma companies to offer their drugs in drug assistance programmes?
- How can patients be sure that they receive generics with active agents and not counterfeits or substandard qualities?
(Countries outside the EU, developing countries, etc.)
- Research in GIST has a lot to do with coincidences, individual expert initiatives, company decisions, etc. Are there chances for an international, better coordinated (overall) research plan in GIST?
(Research priorities developed by experts & patient advocates together?)